

MAY USE LIQUID AIR IN PLACE OF ICE

Practical Demonstration of Its
Qualities Given Before
Business Men.

MAY HAVE MANY USES

Would Effect Great Saving in Re-
frigerator Cars—Fruit Frozen
Too Hard to Cut.

In the assembly hall of the Chamber of Commerce yesterday afternoon, before a large audience of Richmond business men, Dr. J. M. Whitfield, expert analytical chemist, demonstrated a few of the many qualities of liquid air. The demonstration was conducted under the direction of Colonel C. P. E. Burgwyn, consulting engineer for a company manufacturing the product in Norwich, Conn., which company proposes to interest local capital with a view to building a large liquid air plant in Richmond.

The use of liquid air is still in its infancy, and, like electricity twenty-five years ago, it has a wonderfully valuable future. Colonel Burgwyn, Dr. Whitfield and Mr. John S. Fleming, professor of senior mathematics at the Mechanics Institute, all agreed.

"Liquid air will eventually take the place of ice and revolutionize many industries," Mr. Fleming declared, and his assertion was borne out by his statement of the immense increase in the demand for the product within a few months, the great reduction in the cost of manufacture, and the many new usages found for liquid air almost daily.

Frozen Too Hard to Cut.
Dr. Whitfield explained his demonstration as he went along, and also answered all questions asked him and made the demonstration perfectly clear to all present.

Among the apparently marvelous things he did was to freeze grapes, oranges and other fruits so hard that they could not be cut, and with the same liquid air, he heated metal wire to such a heat that two ends were almost instantly fused. This showed that liquid air could be used for two distinctly opposite ends—extreme heat and extreme cold.

In speaking of its use for refrigerating purposes, Dr. Whitfield said that liquid air was a perfectly dry cold, and in that respect was far superior to ice, as the latter gave off moisture in melting and damaged refrigerated products, while liquid air was colder and in both respects a better and more sanitary preservative. No kind of germs can live in liquid air.

One of the most valuable commercial usages, and the number is legion, to which liquid air is being applied, is "icing" refrigerator cars. In using liquid air, refrigerator cars can be kept much colder than with ice from San Francisco to Jersey City at a saving of \$50 a car each trip. From Jacksonville, Fla., to Jersey City, the saving is \$32 a car each trip.

There are 50,000 refrigerator cars in use throughout the country, and by using liquid air their reduction in cost would amount to over \$100,000,000 in charges a year. With liquid air the specially constructed refrigerator car is no longer an absolute necessity for transporting vegetables and fruits long distances, and millions of dollars in these commodities would be saved by its use every year.

Another great use to which liquid air has been put is supplying oxygen to the medical profession, by which it is used for pneumonia, consumption and other ailments of the respiratory organs. According to Professor Fleming over \$500,000 worth of oxygen is consumed annually east of Chicago. Liquid air, when used as a source of oxygen, is composed of 30 per cent. nitrogen and 70 per cent. oxygen, but after standing a while the nitrogen passes off, producing pure oxygen, about 30 per cent. In this shape it is rapidly increasing in demand throughout the country.

Colonel Burgwyn said that it was the intention of the owners of the plant

GOLD SEAL



America's Favorite
Champagne
Possesses a pungency, exquisite bouquet and sparkling bead found only in the best imported product at one HALF the cost.

Two Kinds
SPECIAL DRY—BRUT
Sold by all leading grocers and wine merchants.

URBANA WINE CO.
Urbana, N. Y.
Sole Makers.

In Connecticut to have Richmond business men interested and to build a large plant here to manufacture liquid air for the entire South and Southwest. This would be of inestimable value as an advertisement for Richmond, besides paying a handsome return on the investment.

As to its supplying the place of ice, it was said that when the liquid failed to call at your house Saturday, you could take your Dewar bulb, go to the nearest druggist, grocer or liquid air dispenser, and get a quart for about 25 cents, which would be better than lugging a fifty-pound block of ice through the streets. When you wanted a mint julep or a cocktail, you would go to your sideboard, take out a spoonful of liquid air, and put it in your glass, instead of mashing your fingers and wasting ten pounds of ice to get enough to cool the national beverage.

Colonel Burgwyn in addition to being consulting engineer for the company is also its local representative. He has known the workings of the company for years, and said the way they had reduced the cost of production of liquid air was marvelous. The original producers expended over \$500 to get one gallon. To-day the plant in Norwich, Conn., is making 140 gallons every twenty-four hours at a cost of \$44 for the entire quantity. With the rapidly increasing demand for liquid air the cost of production will be steadily decreased, so that in addition to its use in household and car refrigerating it will come into common use for cooling and heating as well as motive power.

Already heavy trucks and automobiles in New York are being operated by liquid air.

Dr. Whitfield lit a stick, held it over the vessel containing liquid air and the stick burned brightly. When he jabbed the stick into the vessel it blazed brightly, showing that the liquid air was practically pure oxygen. He performed many other feats with the greatest ease, which seemed equally as marvelous and as contradictory as either freezing metal so that it was more brittle than glass, or heating the same metal to such a heat that two pieces were fused in a few seconds.

TROUBLE IN A STORE.

Men Who Assault a Negro Fined and Made to Pay Costs.

[Special to The Times-Dispatch.]
HENRICHSON, N. C., December 14.—Walter S. S. Curran, colored, for many years a cripple, using crutches, was in his place of business in South Henderson, Walter Harris and Vernon Hook, two white men, walked in his store and purchased some articles and then refused to pay for them. When Curran threatened to get out a warrant for them and attempted to leave the building, he was attacked, knocked down and severely beaten. In his present condition Curran reached for a razor and used it with vigor, cutting Harris severely in several places. The case was tried before J. R. Mullen, Mayor pro tem. Curran was acquitted, saving himself in self-defense. Harris was fined \$10 and Hook \$5 and each was ordered to bear his part of the cost.

Virginia Weddings

Asbury-Adams.

MORRISVILLE, VA., December 14.—The parson of Mrs. and Mr. Edward Adams was the scene of a beautiful home wedding on the occasion of the marriage of their oldest daughter, Miss Mary Willis Adams, to Mr. John Marshall Asbury, of Orleans, Va. The house was beautifully decorated with wood ferns, holly and running pine. Mrs. Horner Welch played the "Lohengrin" wedding march. The bride and groom were preceded by Mr. Harold H. Marean, of Bealeton, and Miss Virginia Adams, sister of the bride, and Mr. F. A. Alexander, of Winchester, and Miss Lella Allen, Rev. Homer Welch, pastor of the Morrisville M. E. Church, performed the ceremony.

The bride's gown was an elegant creation of white crepe de chine over tulle, made en princess, en train. She carried an exquisite bouquet of maiden-hair ferns and white chrysanthemums bound with long bride's ribbons. The bride comes of a most distinguished ancestry, being a direct descendant of Lord Baltimore on her mother's side, and collateral descendant of President Washington, Adams and Harrison on her father's side, besides being closely connected with many of Virginia's foremost families, and none held up the family pride to a more queenly manner than yesterday's bride of Maplecroft. The bridesmaids were gowned in white organdy, and carried bouquets.

The groom is a prominent business man of Orleans, Fauquier county, a brother of the famous detective, Charles Asbury, of Turin, Va. He is the famous Confederate chieftain, a collateral descendant of Chief Justice Marshall and Colonel William Byrd, famous in the early Colonial days.

Cobb-Coghill.

[Special to The Times-Dispatch.]
MILFORD, VA., December 14.—At 7:30 o'clock Thursday evening, at the residence of her parents, Miss Bessie Newton, the accomplished daughter of Mr. and Mrs. William Goodwin Coghill, became the bride of Mr. Harry McCruder Cobb, of Washington, D. C. The bride party entered to the strains of Mendelssohn's Wedding March. The bride, accompanied by her father, was met by the groom, who received and led her to a position facing the minister, Dr. J. W. McCowan, of Richmond, was the celebrant, and administered the vows in an impressive manner. The bride was becomingly attired in white, and carried a bouquet of white chrysanthemums.

Misses Elsie Wright, of Richmond, a cousin of the bride, and Miss Norma Cobb, of Washington, sister of the groom, were bridesmaids. Mr. Harry B. Coghill, brother of the bride, was best man.

The parlor had been beautifully decorated for the occasion, and presented a lovely scene under the subdued lights. Miss Florence Broadbent rendered on the violin Mendelssohn's Wedding March, with piano accompaniment by her sister, Miss Helen Broadbent, during the ceremony. In a most charming manner rendered "Oh, Promise Me." A cultured audience was in attendance, and the numerous and valuable presents attested the esteem in which the happy couple are held.

Mr. and Mrs. Cobb left on the 9:30 P. M. train on a bridal tour to New York and other places of interest. They will reside in the national capital.

Battle-McCalley.

[Special to The Times-Dispatch.]
FREDERICKSBURG, VA., December 14.—Mr. Lawrence A. Battle, of Westmoreland county, and Miss Blanche Bowie McCalley, daughter of William H. McCalley, of Caroline county, were married Wednesday at Rappahannock Baptist Parsonage, in Caroline county. Rev. Mr. Kirby officiating. Miss Nancy S. Bowie was the maid of honor and Eugene Battle best man.

Bridges-Davis.

[Special to The Times-Dispatch.]
NOTTOWAY, C. H., VA., December 14.—At the home of the bride's parents, Mr. and Mrs. Thomas Davis, of Hendersonville, near Nottoway Court-house, Va., Miss Agnes Annie Hill Davis, became the bride of Mr. Percy Lee Bridges at 8 o'clock Wednesday evening. The bride wore a princess gown of white silk, elaborately trimmed with old lace, and veil fastened with a diamond brooch, gift of the groom. Miss Margaret Graham Davis, sister of the bride, maid of honor, was

Broad and First Streets.



Dolls from 25c to \$5.

Blisque Dolls and Dolls of Kid: Large Dolls and Small Dolls, with red hair, black hair, brown hair and golden tresses. This includes a number of neatly dressed dolls. This is a fresh line of Dolls, just received.

Doll Baby Tea Sets

These are just as complete as those mamma uses for her big dining parties; prettily decorated. Because we bought late we got "clean-up prices"—25c to \$1.50.

Pretty Pillow Tops

Some laid with a "den" to be decorated, or the little miss at boarding school, would like one of these high art Tops; many designs—25c, 50c, 75c.

Christmas Umbrellas

What would be more desirable than a good umbrella for a gift? We have some pretty Sterling Silver Handle Umbrellas you can buy for \$2.50 and \$3.95.

Choose from This List!

Handkerchief Boxes and Picture Frames cut from 25c and 50c to \$1.00.

Military Brushes, sure to please the men, at 50c and 65c.

Manicure Sets, a pleasing present, at \$2.25, \$2.95 and \$4.95.

Jewelry Cases (providing she has jewelry), 35c, 50c and 95c.

Silk Fans, always desirable, 25c, 50c, 75c, \$1.00 and \$2.50.

Hoke Supporters, in decorated box, for 25c and 50c.

In the jewelry line you'll find a complete line of Hat Pins, Baby Pins, Scarf Pins, Cuff Buttons, Brooches, etc., at prices ranging from 10c to \$1.00.

Silk and Net Waists

White Net Waists, silk lined, for \$3.95, \$5.00 and \$6.00. Silk Waists, in white, for \$2.50.

Chiffon Taffeta Silk Waists, in black and colors, for \$5.00.

Agents for

Standard Patterns,

Only 10c

and 15c

FAULKNER & WARRINER COMPANY.

Broad and First Streets.

CHRISTMAS FURS

And Other Gift Goods.

The pretty line of Furs we are showing this season are proving to be deservedly popular—not only on account of their actual worth as a winter weather comfort, but because judicious buying enables us to offer bargains seldom seen in this line.

Extra Large Size Isabella Fox Muffs, handsome fur, \$8.98.

Ladies' Scarfs, in squirrel, for \$3.98.

Large Squirrel Muffs, for only \$5.98.

Very Large Muffs of Opossum Fur, satin-lined, \$3.98, \$5.00, \$5.98.

Children's Furs, in bear skin, astrakhan and lamb's wool, white and gray, \$1.25, \$1.50 and \$2.

Leather Novelties

This is a line of goods that always desirable from the gift-giving standpoint. Because we name unusually low prices, don't think for a moment that you can get better goods elsewhere. You can't.

Pocketbooks, best grade leathers, 10c, 25c and 50c.

Men's Bill Books at 25c, 50c, 75c and \$1.00.

Ladies' Hand Bags at 25c, 50c, 75c, \$1.00 and \$1.50.

Square Bags at 15c, 25c, 50c, 75c, \$1.25 and \$1.50.

Holiday Handkerchiefs

All Put Up in Fancy Xmas Boxes.

Ladies' Handkerchiefs

Hemstitched and All Linen at 5c, 10c, 12 1/2c, 15c and 25c.

Embroidered Hemstitched Linen Handkerchiefs, 12 1/2c, 15c, 25c, 50c and 85c.

Swiss Handkerchiefs, cross barred and embroidered, for 10c, 12 1/2c, 15c and 25c.

Gentlemen's Handkerchiefs

Hemstitched Linen Handkerchiefs for 12 1/2c, 15c, 10c and 25c.

Silk Handkerchiefs, with colored and fancy borders, 25c, 50c, 75c and \$1.00.

Silk Muffs, a particularly pretty lot, 50c, 75c, \$1.00 and \$1.50.

Children's Handkerchiefs

A special in Hemstitched Handkerchiefs at 2c.

White and Colored Bordered Handkerchiefs, in fancy boxes, 3 to the box, 10c.

Outing Cloth

In pretty light grounds; a 12 1/2c value, for \$4c.

Christmas Linens

Japanese and Cluny Drawn Work, Dollies, Scarfs, Shams and Centre-pieces.

Dollies, 75c to 25c.

Centre-pieces, 25c to \$5.00.

Scarfs, 50c to \$3.75.

Shams, 48c to \$6.00.

Gloves for Gifts

All Gloves sold during the holidays put up in pretty decorated gift boxes.

Short Kid Gloves at 50c, 70c, \$1.00, \$1.25 and \$1.50.

Long Kid Gloves at \$3.00 and \$3.50.

Two-clasp Dressing Gloves, in brown and black, at 25c.

Fabric Gloves, silk lined, an exceptional bargain, at 50c.

Children's Gloves—a large assortment to select from—25c a pair.

Christmas Comforts

Laminated Cotton Comforts, covered with good grade silkoline.

\$1.75 value for \$1.25

\$2.25 value for \$1.50

\$2.50 value for \$1.98

Laminated Wool Comforts, 72 by 84 inches in size; a \$4.00 value, for \$2.98.

Eiderdown Comforts, covered with French sateen; worth \$6.00, for \$4.98.

Christmas Blankets, made of long, selected California wool—

10-4 size, worth \$4.00, for \$2.98

10-4 size, worth \$1.50, for \$1.50

11-4 size, worth \$5.00, for \$3.98

11-4 size, worth \$6.50, for \$4.00

Cretons

A special lot just received; entirely new patterns; a 15c value for 10c.

Underwear Bargains

Misses' and Boys' Very Heavy Fleece-Lined Vests and Pants, 25c.

Misses' Fleece-Lined Vests, 22c quality, for 15c.

Misses' and Boys' Half Wool Pants, in white or gray; 75c quality, for 50c.

Ladies' Extra Heavy Fleece-Lined Vests and Pants for 50c.

Ladies' Fancy Neckwear

Put up in separate gift boxes, at 25c, 50c, 75c and \$1.00.

Embroidered Collars—We have them in all sizes; a 25c value for 15c.

\$12.50 Raincoats for \$10

We have only a few of this number left, but they are big bargains at the price.

Kimono Cloth

and Flannelettes

Reduced from 15c to 12 1/2c.

Christmas Bargains

in Ladies' Suits

All-Wool Cheviot Suits, satin-lined jackets, with velvet collars, for \$12.50.

Cloth Suits in blue or brown, plain short tailored jacket, and skirt with fold, for \$15.00.

Hard-Finish Serge Suits, with new-cut coat, very stylish; a \$20.00 value, for \$16.50.

Leggings and Toques

White or Red Knee Leggings, for children, for only 25c.

Children's Leggin Drawers, in white or black, for 50c.

Children's Toques in light or dark colors, for 25c.

Children's Toques in solid or mixed colors, extra long, for 50c.

3 Dress Goods Specials

Some plain colors, others mostly mixtures:

A 50c value for 25c

A 50c value for 25c

A 50c value for 25c

A \$8.50 Coat for \$5.98

These Pretty Ladies' Coats are 52 inches long; lined with gray satin; trimmed with novelty braid.

Odd Lot Children's Coats

Here's a lot of Coats we've been selling for \$5.00. For a quick sale our Monday's price will be \$3.50.

Specials

50c Fancy Silk cut to 35c.

Men's Neckwear, a holiday bargain, at 25c.

Men's Suspenders, put up in fancy gift boxes, 50c.

Express paid by us to points in Virginia, West Virginia, and North Carolina on purchases amounting to \$5 or over.

THE BITTERS

WILL CURE YOUR STOMACH TROUBLE
AND THESE LETTERS PROVE IT.

T. GRISWOLD, Bear Lake, Mich., says: "Your never failing Stomach Bitters has been our family remedy for years for any stomach distress, poor appetite, etc. I will always endorse it."

G. A. BROSZELL, Revere, Mass., says: "I suffered for years from a bad stomach, headache and biliousness, but a short course of your Bitters cured me, and I have not been troubled since."



If the stomach is in bad shape, its effect is soon manifested on all of the other organs, and the first thing you know you're real sick. Be wise in time and take a few doses of the Bitters. It will restore the stomach to a normal condition, aid indigestion, keep the liver and kidneys active and make you feel like a new being. We guarantee every bottle of

HOSTETTER'S STOMACH BITTERS

to be absolutely pure, so that you need have no hesitancy in trying it without delay. It cures and prevents Sick Headache, Heartburn, Belching, Poor Appetite, Costiveness, Dyspepsia, Indigestion, Biliousness, Sour Risings, Insomnia, Female Ills, Chills, Colds or Malaria.

OLD FOLKS WILL BE GREATLY BENEFITTED BY TAKING THE BITTERS

charmingly attired in white mull, with pink trimmings. Mr. Robert Henry Storer was best man. The wedding march was exquisitely rendered by Miss Mennie Hill Davis, youngest sister of the bride, the ceremony being performed by Rev. Mr. Elmore, of Grewe, Va., the bride's pastor.

Beatty-Barnea.

[Special to The Times-Dispatch.]
HEATERSVILLE, VA., December 14.—Miss Sara Barnes and Mr. Beatty were married last night at Smithland chapel by the pastor, Rev. Mr. Ramsey. The pretty bride, who is the daughter of Mr. William Beatty, of this city, one of our most prominent and successful farmers, was becomingly attired in white silk.

A handsome reception was given after the ceremony at the home of the bride's father.

Wedding Cards.

[Special to The Times-Dispatch.]
FREDERICKSBURG, VA., December 14.—Mr. and Mrs. Thomas B. Croxton, of Essex county, have issued cards for the marriage of their daughter, Miss Helen Gertrude Croxton, to Mr. Louis Burke, formerly of this city, now of Irvington. The marriage will take place December 28th, at the home of the prospective bride's parents, at Dunnsville.

Wedding Cards.

FREDERICKSBURG, VA., December 14.—Mr. and Mrs. W. J. Jacobs, of this city, have issued cards for the marriage of their daughter, Miss Virginia L. Jacobs, to James D. Patton, of Stafford county. The wedding will take place at Berea Baptist Church in Stafford, December 28th, at 5 o'clock.

TO CELEBRATE ANNIVERSARY.

Ashland Lodge of Masons Preparing for 11th Anniversary.

[Special to The Times-Dispatch.]
ASHLAND, VA., December 14.—Ashland Lodge, No. 148, A. F. & A. M., will celebrate their 11th anniversary on December 18th, at 8 o'clock.

The committee in charge, F. H. Cox, W. S. Brown, A. Chambers Ray, Herbert Burpess and S. C. Weisiger, have arranged the following program, which is full of interest to the craft:

Master degree conferred by officers of the Grand Lodge of Virginia; address by Rev. Mr. Broderick; G. G. Tiller, music; address by Brother E. A. Tiller, of Brazil; music; address by Rev. Mr. J. W. Eggleston, supreme grand master of Virginia.

After the Masonic services are over a banquet will be served. The officers of the lodge are: H. L. Quarles, worshipful master; T. L. Lancaster, senior warden; Frank H. Cox, junior w